

Application No.: 10/035,985  
Date of Response: 05/06/2004  
Concerning the Office Action of: 02/12/2004

### LISTING OF CLAIMS

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This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) An implantable fuel cell assembly comprised of means for converting  
5 fat to glycerol and fatty acid, means for converting glycerol to hydrogen, means  
for converting fatty acid to hydrogen, means for converting a bodily fluid to a  
gas selected from the group consisting of hydrogen, oxygen, and mixtures  
thereof, and fuel cell means for producing electricity from hydrogen and  
oxygen.
- 10 2. (Original) The implantable fuel cell assembly as recited in claim 1, wherein  
said implantable fuel cell assembly is disposed beneath the skin of a human  
being.
3. (Original) The implantable fuel cell assembly as recited in claim 2, wherein  
said implantable fuel cell assembly is disposed near fat cells.
- 15 4. (Canceled) ~~The implantable fuel cell assembly as recited in claim 1, wherein  
said implantable fuel cell assembly is comprised of means for harvesting fat  
cells.~~
5. (Canceled) ~~The implantable fuel cell assembly as recited in claim 4, wherein  
said means for harvesting fat cells is comprised of a microknife.~~
- 20 6. (Original) The implantable fuel cell assembly as recited in claim 1, wherein  
said means for converting said fat to said glycerol and said fatty acids is  
comprised of a fat-permeable material.

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7. (Original) The implantable fuel cell assembly as recited in claim 6, wherein  
said means for converting said fat to said glycerol and said fatty acids is  
comprised of lipase enzyme.
8. (Original) The implantable fuel cell assembly as recited in claim 7, wherein  
5 from about 3 to about 10 percent of said lipase enzyme is present, based upon  
the total mass of said lipase enzyme and said fat.
9. (Original) The implantable fuel cell assembly as recited in claim 8, further  
comprising a porous material with an average pore size of less than about 10  
nanometers.
- 10 10. (Original) The implantable fuel cell assembly as recited in claim 1, wherein  
said means for converting said fatty acids to hydrogen is comprised of beta  
oxidase enzyme.
11. (Original) The implantable fuel cell assembly as recited in claim 10, wherein  
said means for converting said fatty acids to hydrogen is comprised of  
15 oxaloacetate.
- 12 (Original) The implantable fuel cell assembly as recited in claim 1, further  
comprising a glycerol fuel cell.
13. (Original) The implantable fuel cell assembly as recited in claim 12, wherein  
said glycerol fuel cell is comprised of an anode and anode enzyme disposed on  
20 said anode, wherein said anode is configured and arranged for electroxidizing  
an anode reductant in the presence of the anode enzyme.
14. (Amended) The implantable fuel cell assembly as recited in claim 13, wherein  
said glycerol fuel cell is comprised of a cathode spaced apart from said anode

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and cathode enzyme disposed on said cathode, wherein said cathode is configured and arranged for electroreducing a cathode oxidant in the presence of said cathode enzyme.

15. (Original) The implantable fuel cell assembly as recited in claim 1, wherein

5     said gas is oxygen.

16. (Original) The implantable fuel cell assembly as recited in claim 1, wherein

   said fuel cell assembly further comprises a rechargeable power supply.

17. (Original) The implantable fuel cell assembly as recited in claim 16, wherein

   said fuel cell assembly further comprises a piezoelectric means for converting

10    electricity into mechanical motion.

18. (Original) The implantable fuel cell assembly as recited in claim 16, wherein

   said fuel cell assembly further comprises electrostrictive means for converting

   electricity into mechanical motion.